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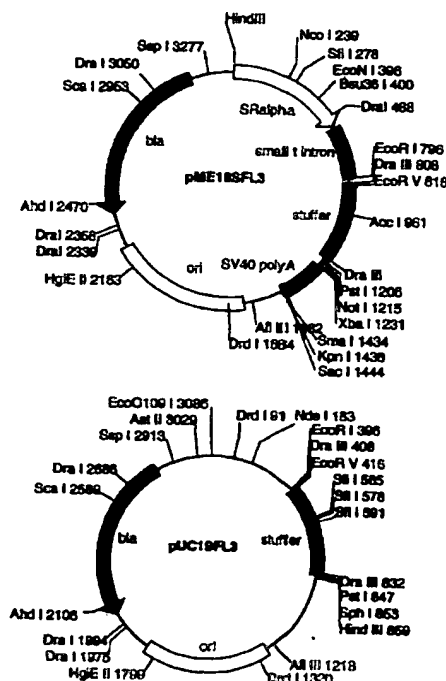
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(54) **Secretory protein or membrane protein**

(57) Novel human secretory proteins or membrane proteins, and full length cDNAs encoding the proteins are provided.

173 kinds of novel proteins and polynucleotides encoding these proteins have been isolated. The proteins of the present invention are useful as candidates for medicines or as target molecules for developing medicines. The polynucleotides of the present invention are used to produce these proteins.

Figure 1





European Patent
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EUROPEAN SEARCH REPORT

Application Number
EP 00 11 4090

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| -The present search report has been drawn up for all claims | | | |
| Place of search THE HAGUE | | Date of completion of the search 22 June 2001 | Examiner HORNIG H. |
| CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document | | T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document | |

EPO FORM 1503 03/02 (P04C01)



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CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing more than ten claims.

- ☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claim(s):
- ☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

- ☐ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
- ☐ As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.
- ☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:
- ☒ None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:

1-22 partially and as far as applicable



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EUROPEAN SEARCH REPORT

Application Number
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| The present search report has been drawn up for all claims | | | |
| Place of search THE HAGUE | | Date of completion of the search 22 June 2001 | Exam.nbr HORNIG H. |
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EPO FORM 1503 (03.02) (p04c01)



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Office

LACK OF UNITY OF INVENTION
SHEET B

Application Number

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The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. Claims: (1-22)-partially and as far as applicable

An isolated (a) polynucleotide selected from SEQ ID No. 1, (b) a polynucleotide comprising a nucleotide sequence encoding a protein comprising the amino acid sequence SEQ ID No. 2, (c) said amino acid sequence in which one or more amino acids are substituted, deleted, inserted and/or added, wherein said protein is functionally equivalent to the protein comprising said amino acid sequence, (d) a polynucleotide that hybridizes to said polynucleotide sequence of (a), (e) a polynucleotide comprising a nucleotide sequence with at least 70% identity to the nucleotide sequence of (a); use of an oligonucleotide as a primer for synthesizing the polynucleotide sequence of clone PSEC0001 (NT2RM1000066) comprising the nucleotide sequence of SEQ ID No. 370, or the complementary strand thereof, wherein said oligonucleotide is complementary to said polynucleotide or the complementary strand thereof and comprises at least 15 nucleotides; a primer set for synthesizing polynucleotides, the primer set comprises an oligo-dT primer and an oligonucleotide complementary to the complementary strand of the polynucleotide sequence SEQ ID No. 370; a polynucleotide which can be synthesized with said primer set; a protein coding for said polynucleotide; a partial peptide of said protein; an antibody against said protein; a vector comprises said polynucleotide; a transformant expressing said vector; an antisense polynucleotide against said polynucleotide; a method of synthesizing said polynucleotide; a method for detecting said polynucleotide;

2. Claims: (1-22)-partially and as far as applicable

Idem as subject 1 but limited to nnnnnnnn; SEQ ID Nos. 3,4, and 371;

3. Claims: (1-22)-partially and as far as applicable

Idem as subject 1 but limited to PSEC0005 (NT2RM1000566) and SEQ ID Nos. 5,6 and 372;

4. Claims: (1-22)-partially and as far as applicable

Idem as subject 1 but limited to PSEC0007 (NT2RM1000634) to PSEC0265 (NT2RM3003235); (Invention 4 is limited to PSEC0007 (NT2RM1000634) respectively SEQ ID Nos. 7,8 and 373; Invention 5 is limited to PSEC0008 respectively SEQ ID Nos. 9,10 and 374; Invention 173 is limited to PSEC0265



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**LACK OF UNITY OF INVENTION
SHEET B**

Application Number

EP 00 11 4090

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

(NT2RM3003235) respectively SEQ ID Nos. 349,350,540 and 679).

5. Claim : 23

A database of nucleotides and/or proteins, the database comprising information on at least one sequence selected from the nucleotides of clone PSEC0007 (NT2RM1000634) to PSEC0265 (NT2RM3003235) (SEQ ID Nos. 1,2 and 370) to NT2RP2006580 (SEQ ID Nos. 349,350,540 and 679).



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| -The present search report has been drawn up for all claims | | | |
| Place of search THE HAGUE | | Date of completion of the search 22 June 2001 | Examiner HORNIG H. |
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EPO FORM 1503 (03-02) (PatCat)

EUROPEAN SEARCH REPORT

Application Number
EP 00 11 4090

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| THE HAGUE | 22 June 2001 | HORNIG H. | |
| CATEGORY OF CITED DOCUMENTS | | <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date O : document cited in the application L : document cited for other reasons</p> <p>-----</p> <p>& : member of the same patent family, corresponding document</p> | |
| <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> | | | |

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 00 11 4090

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22-06-2001

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